STIC Search Report
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STIC Database Tracking Number: 186915

TO: Michael Borin **Location: 2a55 / 2c70** **Monday, May 08, 2006** **Art Unit: 1631** **Phone: 571-272-0713** **Serial Number: 10 / 659233**	**From: Jan Delaval** **Location: Biotech-Chem Library** **Remsen 1a51** **Phone: 571-272-2504** **jan.delaval@uspto.gov**

Search Notes

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ACCESS DB # 186915

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Michael BORIN Examiner # : 74104 Date: 04/25/06
Art Unit: 1631 Phone Number: 2-0713 Serial Number: 10/659233
Location (Bldg/Room#): 2A55 (Mailbox #): 2C70 Results Format Preferred (circle): PAPER DISK

****

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following: MG

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Date: _____

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search compound of claim 41

Thank you

****

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Searcher: _____
Searcher Phone #: 22504
Searcher Location: _____
Date Searcher Picked Up: 5/8/06
Date Completed: 5/8/06
Searcher Prep & Review Time: 5
Online Time: 5

Type of Search

_____ NA Sequence (#)
_____ AA Sequence (#)
✓ Structure (#)
_____ Bibliographic
_____ Litigation
_____ Fulltext
_____ Other

Vendors and cost where applicable

✓ STN _____ Dialog
_____ Questel/Orbit _____ Lexis/Nexis
_____ Westlaw _____ WWW/Internet
____ In-house sequence systems
__ Commercial ___ Oligomer ____ Score/Length
__ Interference ___ SPDI ____ Encode/Transl
_____ Other (specify)

STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact ***the searcher or contact:***

Mary Hale, Information Branch Supervisor
22507, Remsen 1d86

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 1610*

- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found:***
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library CM1 – Circ. Desk

Search and Information Resources Administration

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=> fil reg
FILE 'REGISTRY' ENTERED AT 09:31:03 ON 08 MAY 2006
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STRUCTURE FILE UPDATES:    7 MAY 2006  HIGHEST RN 883215-66-5
DICTIONARY FILE UPDATES:   7 MAY 2006  HIGHEST RN 883215-66-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
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************************************************************
*                                                          *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                          *
************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

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experimental property data in the original document.  For information
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http://www.cas.org/ONLINE/UG/regprops.html

=> d l5 sqide can

L5   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   220382-59-2  REGISTRY
CN   L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-
     aminocyclopropanecarbonyl- (9CI)  (CA INDEX NAME)
FS   PROTEIN SEQUENCE; STEREOSEARCH
SQL  4
NTE  modified (modifications unspecified)
-----------------------------------------------------------------
 type             ------ location ------         description
-----------------------------------------------------------------
uncommon          Aaa-3            -          -
-----------------------------------------------------------------

SEQ      1 NFXL

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF   C32 H42 N6 O6
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
DT.CA  CAplus document type:  Conference; Patent
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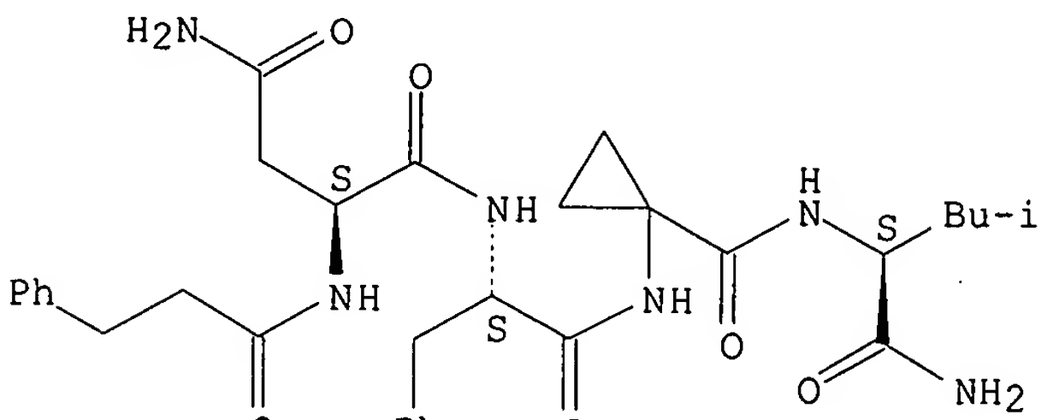
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PRP (Properties)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:344456

REFERENCE 2: 130:168629

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 09:31:09 ON 08 MAY 2006

FILE COVERS 1907 - 8 May 2006 VOL 144 ISS 20
FILE LAST UPDATED: 7 May 2006 (20060507/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot l8

L8 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:351381 HCAPLUS
DN 132:344456
ED Entered STN: 26 May 2000
TI Preparation of mimetic insect allatostatin analogs for insect control.
IN Nachman, Ronald J.; Teal, Peter E. A.; Garside, Christopher S.; Tobe, Stephen S.
PA United States of America, Secretary of Agriculture, USA; Governing Council of the University of Toronto
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K0038-04
ICS A61K0038-08
CC 5-4 (Agrochemical Bioregulators)
Section cross-reference(s): 34
FAN.CNT 1

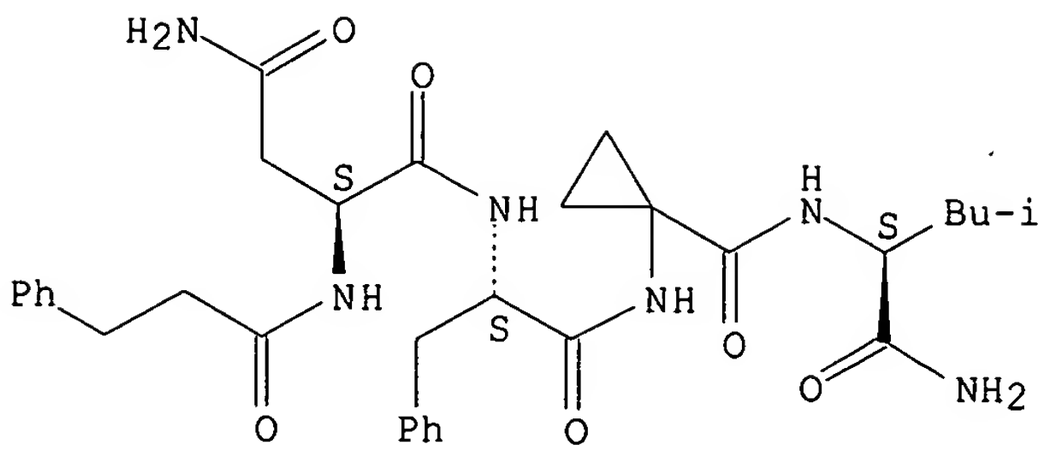
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000029010	A1	20000525	WO 1999-US26939	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6207643	B1	20010327	US 1998-191906	19981113
US 6664371	B1	20031216	US 2001-680201	20010119
US 2003161857	A1	20030828	US 2003-385317	20030310
US 2004039159	A1	20040226	US 2003-659509	20030910
US 2004229812	A1	20041118	US 2003-659233	20030910
PRAI US 1998-191906	A	19981113		
US 2001-680201	A3	20010119		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2000029010	ICM	A61K0038-04
	ICS	A61K0038-08
	IPCI	A61K0038-04 [ICM,7]; A61K0038-08 [ICS,7]
	IPCR	C07K0007-00 [I,C]; C07K0007-06 [I,A]; C07K0007-08 [I,A]
	ECLA	C07K007/06A; C07K007/08A
US 6207643	IPCI	A61K0038-08 [ICM,7]; A61K0038-10 [ICS,7]
	IPCR	C07K0007-00 [I,C]; C07K0007-06 [I,A]; C07K0007-08 [I,A]
	NCL	514/014.000; 514/016.000; 514/017.000; 530/326.000; 530/327.000; 530/329.000; 530/330.000
	ECLA	C07K007/06A; C07K007/08A
US 6664371	IPCI	A61K0038-09 [ICM,7]; A61K0038-10 [ICS,7]
	IPCR	C07K0007-00 [I,C]; C07K0007-06 [I,A]; C07K0007-08 [I,A]
	NCL	530/329.000; 530/326.000; 530/327.000; 530/328.000; 530/330.000
	ECLA	C07K007/06A; C07K007/08A
US 2003161857	IPCI	A01N0025-00 [ICM,7]; C07K0007-08 [ICS,7]; C07K0007-06 [ICS,7]
	IPCR	C07K0007-00 [I,C]; C07K0007-06 [I,A]; C07K0007-08 [I,A]
	NCL	424/405.000
	ECLA	C07K007/06A; C07K007/08A
US 2004039159	IPCI	C07K0007-06 [ICM,7]; C07K0005-06 [ICS,7]

IPCR C07K0007-00 [I,C]; C07K0007-06 [I,A]; C07K0007-08 [I,A]
NCL 530/329.000
ECLA C07K007/06A; C07K007/08A
US 2004229812 IPCI A61K0038-08 [ICM,7]; A61K0038-06 [ICS,7]; C07K0007-06 [ICS,7]
IPCR C07K0007-00 [I,C]; C07K0007-06 [I,A]; C07K0007-08 [I,A]
NCL 514/017.000
ECLA C07K007/06A; C07K007/08A
OS MARPAT 132:344456
AB Novel pseudopeptide analogs of the insect allatostatin neuropeptide family which possess biol. activity mimicking that of the naturally occurring neuropeptides are disclosed. By addition of a hydrophobic moiety to an active portion of the allatostatin peptides, analogs are produced which exhibit an overall amphiphilic nature and which are capable of penetrating the insect cuticle while still retaining biol. activity. Furthermore, by substituting sterically hindered amino acids or aromatic acids for any or all of the first, third or fifth amino acid residues of the allatostatin C-terminal pentapeptide, analogs may be produced which are resistant to degradation by insect peptidases while still retaining biol. activity. The analogs may be used for insect control by disrupting critical reproductive and/or developmental processes normally regulated by allatostatins in insects. Preparation of the analogs is given.
ST insect allatostatin analogs prepn insecticide
IT Insecticides
(preparation of mimetic insect allatostatin analogs for insect control.)
IT Neuropeptides
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of mimetic insect allatostatin analogs for insect control.)
IT 214470-28-7P 214470-29-8P **220382-59-2P**
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as mimetic insect allatostatin analog for insect control.)
IT 110119-33-0DP, Allatostatin, analogs
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation for insect control)
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Hayes, T; Peptides 1994, V15(7), P1165 HCAPLUS
(2) Nachman; Bioorganic and Medicine Chemistry 1998, V6(8), P1379 HCAPLUS
(3) Nachman; Proc Int Congr Comp Endocrinol 13th 1997, V2, P1353 HCAPLUS
IT **220382-59-2P**
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as mimetic insect allatostatin analog for insect control.)
RN 220382-59-2 HCAPLUS
CN L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-aminocyclopropanecarbonyl- (9CI) (CA INDEX NAME)

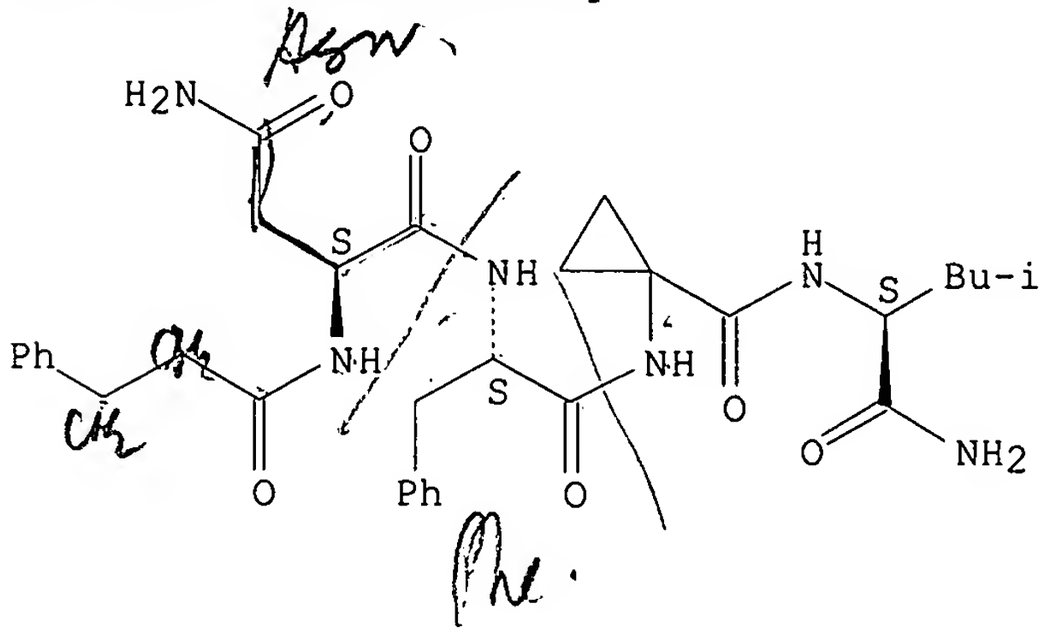
Absolute stereochemistry.



L8 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:754590 HCAPLUS
DN 130:168629
ED Entered STN: 02 Dec 1998
TI Active conformation and peptidase resistance of conformationally restricted analogs of the insect allatostatin neuropeptide family
AU Nachman, R. J.; Moyna, G.; Williams, H. J.; Garside, C.; Tobe, S. S.
CS Veterinary Entomology Research Unit, FAPRL, U.S. Department of Agriculture, College Station, TX, USA
SO Advances in Comparative Endocrinology, Proceedings of the International Congress of Comparative Endocrinology, 13th, Yokohama, Nov. 16-21, 1997 (1997), Volume 2, 1353-1359. Editor(s): Kawashima, Seiichiro; Kikuyama, Sakae. Publisher: Monduzzi Editore, Bologna, Italy.
CODEN: 66ZWA3
DT Conference
LA English
CC 34-3 (Amino Acids, Peptides, and Proteins)
AB The authors address through the design, synthesis and biol. evaluation of a series of linear mimetic allatostatin analogs containing conformationally restricted components within the C-terminal pentapeptide active core sequence. As these conformationally restricted analogs necessarily involve incorporation of sterically hindered mol. structures, these analogs have been addnl. tested for patterns of hydrolysis via hemolymph and tissue-bound peptidases.
ST allatostatin conformation peptidase structure activity
IT Peptidomimetics
Structure-activity relationship
(allatostatin conformationally restricted analogs and their resistance to peptidase)
IT Conformation
(protein; allatostatin conformationally restricted analogs and their resistance to peptidase)
IT 110119-33-0DP, Allatostatin, analogs 196201-71-5P, 4-8-Allatostatin 1 (Aedes aegypti) 214470-28-7P 214470-29-8P 214470-30-1P 220382-58-1P **220382-59-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(allatostatin conformationally restricted analogs and their resistance to peptidase)
IT 9031-96-3, Peptidase
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(allatostatin conformationally restricted analogs and their resistance to peptidase)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Bendena, W; Annals NY Acad Sci 1997, V814, P53 HCAPLUS
(2) Hayes, T; Peptides 1994, V15, P1165 HCAPLUS
(3) James, G; Science 1993, V260, P1937 HCAPLUS
(4) Toniolo, C; Biopolymers 1983, V22, P205 HCAPLUS
IT **220382-59-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(allatostatin conformationally restricted analogs and their resistance to peptidase)
RN 220382-59-2 HCAPLUS
CN L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-aminocyclopropanecarbonyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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FILE 'USPATFULL' ENTERED AT 09:31:30 ON 08 MAY 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 09:31:30 ON 08 MAY 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

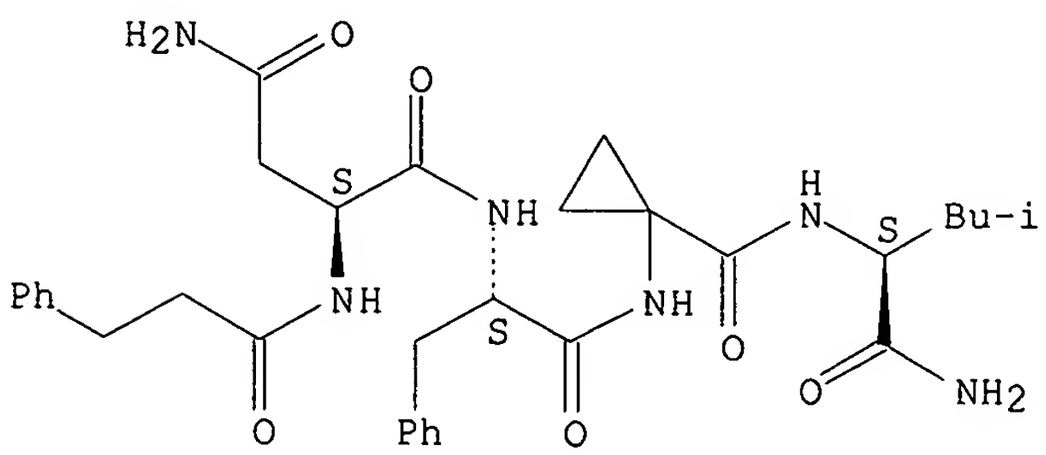
=> d bib abs hitstr tot 19

L9 ANSWER 1 OF 5 USPATFULL on STN
AN 2004:292723 USPATFULL
TI Mimetic insect allatostatin analogs for insect control
IN Nachman, Ronald J., Willis, TX, UNITED STATES
Teal, Peter E. A., Gainesville, FL, UNITED STATES
Garside, Christopher S., Toronto, CANADA
Tobe, Stephen S., Virgil, CANADA
PA The United States of America, as represented by the Secretary of Agriculture (U.S. corporation)
PI US 2004229812 A1 20041118
AI US 2003-659233 A1 20030910 (10)
RLI Division of Ser. No. US 2001-680201, filed on 19 Jan 2001, GRANTED, Pat. No. US 6664371 Division of Ser. No. US 1998-191906, filed on 13 Nov 1998, GRANTED, Pat. No. US 6207643
DT Utility
FS APPLICATION
LREP USDA-ARS-OFFICE OF TECHNOLOGY TRANSFER, NATIONAL CTR FOR AGRICULTURAL UTILIZATION RESEARCH, 1815 N. UNIVERSITY STREET, PEORIA, IL; 61604
CLMN Number of Claims: 40
ECL Exemplary Claim: 1

DRWN 4 Drawing Page(s)
LN.CNT 1103
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel pseudopeptide analogs of the insect allatostatin neuropeptide family which possess biological activity mimicking that of the naturally occurring neuropeptides are disclosed. By addition of a hydrophobic moiety to an active portion of the allatostatin peptides, analogs are produced which exhibit an overall amphiphilic nature and which are capable of penetrating the insect cuticle while still retaining biological activity. Furthermore, by substituting sterically hindered amino acids or aromatic acids for any or all of the first, third or fifth amino acid residues of the allatostatin C-terminal pentapeptide, analogs may be produced which are resistant to degradation by insect peptidases while still retaining biological activity. The analogs may be used for insect control by disrupting critical reproductive and/or developmental processes normally regulated by allatostatins in insects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **220382-59-2P**
(preparation as mimetic insect allatostatin analog for insect control.)
RN 220382-59-2 USPATFULL
CN L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-aminocyclopropanecarbonyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

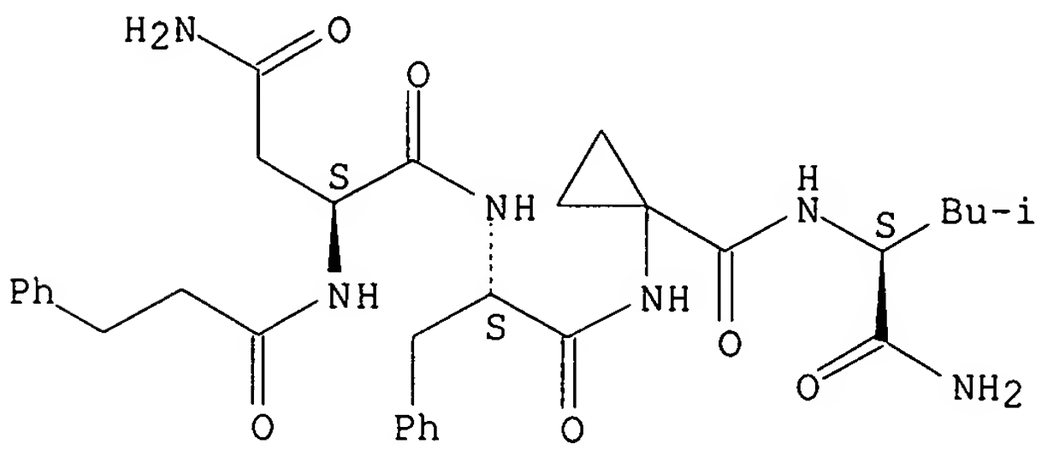


L9 ANSWER 2 OF 5 USPATFULL on STN
AN 2004:51728 USPATFULL
TI Mimetic insect allatostatin analogs for insect control
IN Nachman, Ronald J., Willis, TX, UNITED STATES
Teal, Peter E.A., Gainesville, FL, UNITED STATES
Garside, Christopher S., Toronto, CANADA
Tobe, Stephen S., Virgll, CANADA
PI US 2004039159 A1 20040226
AI US 2003-659509 A1 20030910 (10)
RLI Continuation of Ser. No. US 2001-680201, filed on 19 Jan 2001, GRANTED, Pat. No. US 6664371 Division of Ser. No. US 1998-191906, filed on 13 Nov 1998, GRANTED, Pat. No. US 6207643
DT Utility
FS APPLICATION
LREP USDA-ARS-OFFICE OF TECHNOLOGY TRANSFER, NATIONAL CTR FOR AGRICULTURAL UTILIZATION RESEARCH, 1815 N. UNIVERSITY STREET, PEORIA, IL, 61604
CLMN Number of Claims: 40
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 1105
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel pseudopeptide analogs of the insect allatostatin neuropeptide family which possess biological activity mimicking that of the naturally occurring neuropeptides are disclosed. By addition of a hydrophobic moiety to an active portion of the allatostatin peptides, analogs are produced which exhibit an overall amphiphilic nature and which are capable of penetrating the insect cuticle while still retaining biological activity. Furthermore, by substituting sterically hindered amino acids or aromatic acids for any or all of the first, third or fifth amino acid residues of the allatostatin C-terminal pentapeptide, analogs may be produced which are resistant to degradation by insect peptidases while still retaining biological activity. The analogs may be used for insect control by disrupting critical reproductive and/or developmental processes normally regulated by allatostatins in insects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **220382-59-2P**
(preparation as mimetic insect allatostatin analog for insect control.)
RN 220382-59-2 USPATFULL
CN L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-aminocyclopropanecarbonyl- (9CI) (CA INDEX NAME)

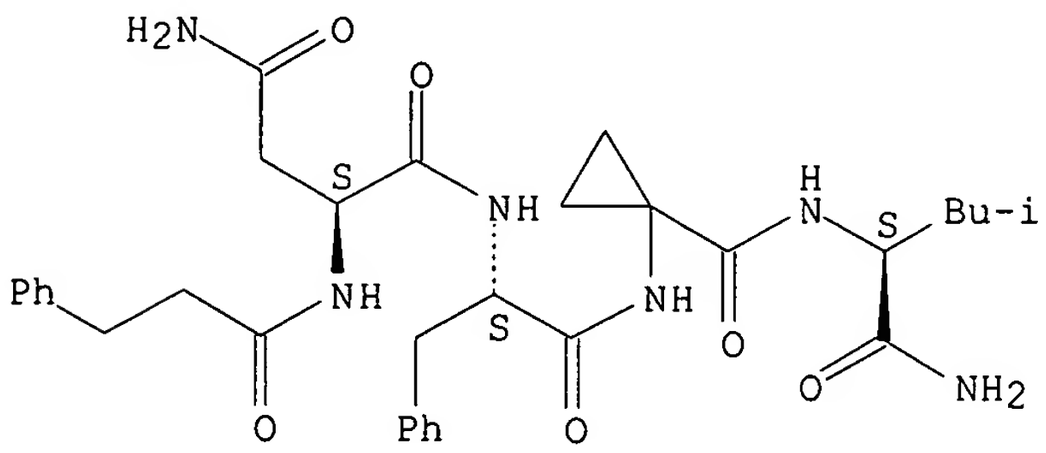
Absolute stereochemistry.



L9 ANSWER 3 OF 5 USPATFULL on STN
AN 2003:327049 USPATFULL
TI Mimetic insect allatostatin analogs for insect control
IN Nachman, Ronald J., Willis, TX, United States
Teal, Peter E. A., Gainesville, FL, United States
Garside, Christopher S., Toronto, CANADA
Tobe, Stephen S., Virgil, CANADA
PA The United States of America as represented by the Secretary of Agriculture, Washington, DC, United States (U.S. government)
PI US 6664371 B1 20031216
AI US 2001-680201 20010119 (9)
RLI Division of Ser. No. US 1998-191906, filed on 13 Nov 1998, now patented, Pat. No. US 6207643
DT Utility
FS GRANTED
EXNAM Primary Examiner: Borin, Michael
LREP Fado, John D., Deck, Randall E.
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 955
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel pseudopeptide analogs of the insect allatostain neuropeptide family which possess biological activity mimicking that of the naturally

ocurring neuropepetides are disclosed. By addition of a hydrophobic moiety to an active portion of the allatostatin peptides, analogs are produced which exhibit an overall amphipilic nature and which are capable of penetrating the insect cuticle while still retaining biological activity. Furthermore, by substituting sterically hindered amino acids or aromatic acids for any or all of the first, third or fifth amino acids residues of the allatostatin C-terminal pentapeptide, analogs may be produced which are resistant to degradation by insect peptidases while still retaining biological activity. The analogs may be used for insect control by disrupting critical reproductive and/or developmental processes normally regulated by allatostatins in insects.

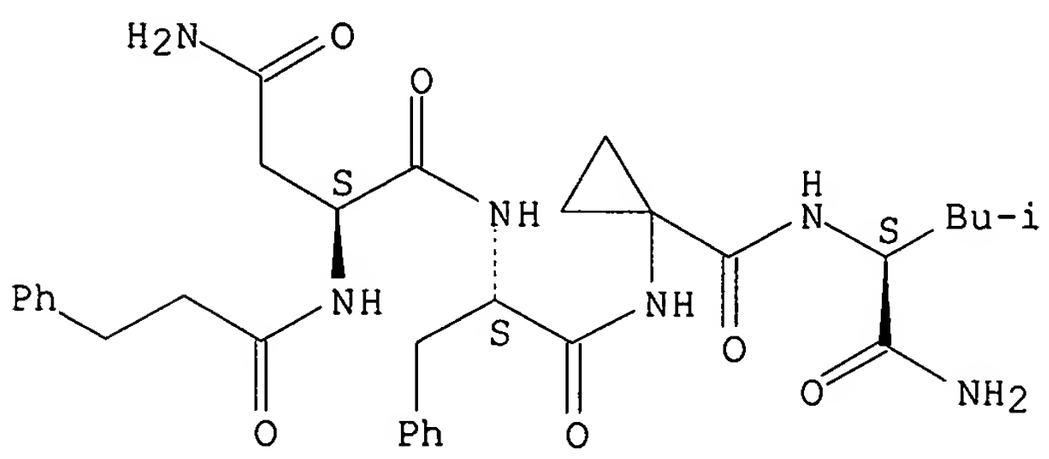
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **220382-59-2P**
(preparation as mimetic insect allatostatin analog for insect control.)
RN 220382-59-2 USPATFULL
CN L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-aminocyclopropanecarbonyl- (9CI) (CA INDEX NAME)
Absolute stereochemistry.



L9 ANSWER 4 OF 5 USPATFULL on STN
AN 2003:231659 USPATFULL
TI Mimetic insect allatostatin analogs for insect control
IN Nachman, Ronald J., Willis, TX, UNITED STATES
Teal, Peter E. A., Gainesville, FL, UNITED STATES
Garside, Christopher S., Toronto, CANADA
Tobe, Stephen S., Virgil, CANADA
PA United States of America, as represented by the Secretary of Agriculture (U.S. corporation)
PI US 2003161857 A1 20030828
AI US 2003-385317 A1 20030310 (10)
RLI Division of Ser. No. US 2001-680201, filed on 19 Jan 2001, PENDING
Division of Ser. No. US 1998-191906, filed on 13 Nov 1998, GRANTED, Pat. No. US 6207643
DT Utility
FS APPLICATION
LREP USDA-ARS-OFFICE OF TECHNOLOGY TRANSFER, NATIONAL CTR FOR AGRICULTURAL UTILIZATION RESEARCH, 1815 N. UNIVERSITY STREET, PEORIA, IL, 61604
CLMN Number of Claims: 40
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 1104
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel pseudopeptide analogs of the insect allatostatin neuropeptide family which possess biological activity mimicking that of the naturally occurring neuropeptides are disclosed. By addition of a hydrophobic

moiety to an active portion of the allatostatin peptides, analogs are produced which exhibit an overall amphiphilic nature and which are capable of penetrating the insect cuticle while still retaining biological activity. Furthermore, by substituting sterically hindered amino acids or aromatic acids for any or all of the first, third or fifth amino acid residues of the allatostatin C-terminal pentapeptide, analogs may be produced which are resistant to degradation by insect peptidases while still retaining biological activity. The analogs may be used for insect control by disrupting critical reproductive and/or developmental processes normally regulated by allatostatins in insects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **220382-59-2P**
(preparation as mimetic insect allatostatin analog for insect control.)
RN 220382-59-2 USPATFULL
CN L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-aminocyclopropanecarbonyl- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

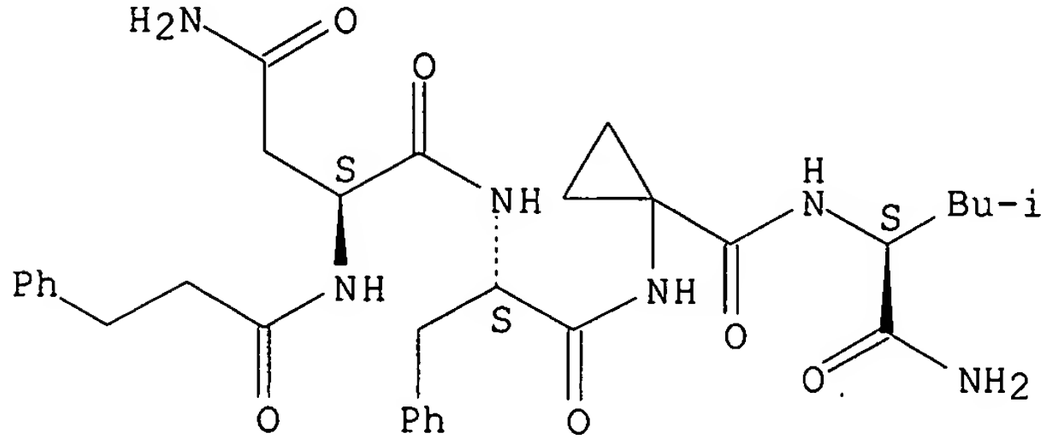


L9 ANSWER 5 OF 5 USPATFULL on STN
AN 2001:44201 USPATFULL
TI Mimetic insect allatostatin analogs for insect control
IN Nachman, Ronald J., Willis, TX, United States
Teal, Peter E. A., Gainesville, FL, United States
Garside, Christopher S., Toronto, Canada
Tobe, Stephen S., Virgil, Canada
PA The United States of America as represented by the Secretary of Agriculture, Washington, DC, United States (U.S. government)
PI US 6207643 B1 20010327
AI US 1998-191906 19981113 (9)
DT Utility
FS Granted
EXNAM Primary Examiner: Borin, M.
LREP Silverstein, M. Howard, Fado, John D., Deck, Randall E.
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 939
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel pseudopeptide analogs of the insect allatostatin neuropeptide family which possess biological activity mimicking that of the naturally occurring neuropeptides are disclosed. By addition of a hydrophobic moiety to an active portion of the allatostatin peptides, analogs are produced which exhibit an overall amphiphilic nature and which are capable of penetrating the insect cuticle while still retaining biological activity. Furthermore, by substituting sterically hindered

amino acids or aromatic acids for any or all of the first, third or fifth amino acid residues of the allatostatin C-terminal pentapeptide, analogs may be produced which are resistant to degradation by insect peptidases while still retaining biological activity. The analogs may be used for insect control by disrupting critical reproductive and/or developmental processes normally regulated by allatostatins in insects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **220382-59-2P**
(preparation as mimetic insect allatostatin analog for insect control.)
RN 220382-59-2 USPATFULL
CN L-Leucinamide, N2-(1-oxo-3-phenylpropyl)-L-asparaginyl-L-phenylalanyl-1-aminocyclopropanecarbonyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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SEL RN

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L4 1 S E3 AND C3/ES AND 46.150.18/RID AND 3/NR
L5 1 S L3,L4
L6 0 S 220382-59-2/CRN

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jan delaval - 8 may 2006

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jan delaval - 8 may 2006